

## SEQUENCE LISTING

## RECEIVED

<110> MORI, SATOSHI
 NAKANISHI, HIROMI
 OKI, HIROYUKI
 YAMAGUCHI, HIROTAKA

MAR 2 6 2001 TECH CENTER 1600/2900

YAMAGUCHI, HIROTAKA <120> METHOD FOR TRANSFORMING PLANT, THE RESULTANT PLANT AND GENE THEREOF <130> 55022 (71526) <140> 09/646,825 <141> 2000-09-22 <150> JP/10-96637 <151> 1998-03-24 <160> 38 <170> PatentIn Ver. 2.1 <210> 1 <211> 2092 <212> DNA <213> Artificial Sequence <220> <223> Description of Artificial Sequence: Synthetic saccharomyces cerevisiae <220> <221> CDS <222> (20)..(2077) <400> 1 gaatteteta gaeteeace atg gtt aga ace aga gte ett tte tge etc tte Met Val Arg Thr Arg Val Leu Phe Cys Leu Phe 1 atc tct ttc ttc gct aca gtc caa tcg agc gct aca ctc atc tcc act Ile Ser Phe Phe Ala Thr Val Gln Ser Ser Ala Thr Leu Ile Ser Thr 15 tca tqc att tct caq qct qca ctq tac caq ttc qqa tqc tca agc aag Ser Cys Ile Ser Gln Ala Ala Leu Tyr Gln Phe Gly Cys Ser Ser Lys 30 tca aag tct tgc tac tgc aag aac atc aat tgg ctc gga agc gtc act Ser Lys Ser Cys Tyr Cys Lys Asn Ile Asn Trp Leu Gly Ser Val Thr 45 gca tgc gct tat gag aac tcc aaa tct aac aag act ctg gac tcc gct Ala Cys Ala Tyr Glu Asn Ser Lys Ser Asn Lys Thr Leu Asp Ser Ala

12

60

ttg atg aaa ctt gcc agc caa tgc tca agt atc aag gtt tac aca ctg 292 Leu Met Lys Leu Ala Ser Gln Cys Ser Ser Ile Lys Val Tyr Thr Leu 85 gag gac atg aag aac atc tac ctt aat gca agt aac tac ctt cgc gct 340 Glu Asp Met Lys Asn Ile Tyr Leu Asn Ala Ser Asn Tyr Leu Arg Ala 100 95 cct gag aaa tcc gat aag aca gtt gtt tca caa ccg ttg atg gca 388 Pro Glu Lys Ser Asp Lys Lys Thr Val Val Ser Gln Pro Leu Met Ala 110 115 120 aat qaq acq qcc tat cac tac tac tat gag gaa aac tat ggg atc cac 436 Asn Glu Thr Ala Tyr His Tyr Tyr Glu Glu Asn Tyr Gly Ile His 130 135 125 484 ttg aat ttg atg cga tct caa tgg tgc gca tgg ggc ctc gtc ttc ttc Leu Asn Leu Met Arg Ser Gln Trp Cys Ala Trp Gly Leu Val Phe Phe tgg gtc gca gtc ctt acc gcc gca act atc ttg aac att ctc aaa cgc Trp Val Ala Val Leu Thr Ala Ala Thr Ile Leu Asn Ile Leu Lys Arg 160 165 gta ttc ggc aag aac att atg gca aat tct gtt aag aag tct ctt atc 580 Val Phe Gly Lys Asn Ile Met Ala Asn Ser Val Lys Lys Ser Leu Ile 180 175 tac cca age gtt tac aaa gac tac aac gag aga act ttc tat ctt tgg 628 Tyr Pro Ser Val Tyr Lys Asp Tyr Asn Glu Arg Thr Phe Tyr Leu Trp 190 aaa cgt ttg cca ttc aac ttt aca act cga ggc aaa gga ctc gta gtt 676 Lys Arg Leu Pro Phe Asn Phe Thr Thr Arg Gly Lys Gly Leu Val Val 205 210 ctt atc ttt gtc att ctg act att ctc tca ctc tct ttc gga cat aac 724 Leu Ile Phe Val Ile Leu Thr Ile Leu Ser Leu Ser Phe Gly His Asn 220 atc aag ttg cca cat cct tac gat aga cct aga tgg aga aga tca atg 772 Ile Lys Leu Pro His Pro Tyr Asp Arq Pro Arq Trp Arq Arq Ser Met qua tte que tea ege egt get gae ttg atg gea ate get ett tte eec Ala Phe Val Ser Arg Arg Ala Asp Leu Met Ala Ile Ala Leu Phe Pro 255 gtg gtg tac ctt ttc ggt atc cgg aac aac ccc ttc atc cca atc acc 868 Val Val Tyr Leu Phe Gly Ile Arg Asn Asn Pro Phe Ile Pro Ile Thr 270 gga ttg agc ttt agt act ttc aac ttt tac cac aaa tgg tca gca tac Gly Leu Ser Phe Ser Thr Phe Asn Phe Tyr His Lys Trp Ser Ala Tyr 285

A

									gct Ala	964
									tac Tyr 330	1012
									ttc Phe	1060
	_	_			_		_		ctt Leu	1108
	_	_		_			_		cat His	1156
									atc Ile	1204
									gga Gly 410	1252
									atc Ile	1300
	_	_	_	_					gca Ala	1348
									agt Ser	1396
									cct Pro	1444
									att Ile 490	1492
									gtt Val	1540
									cac His	1588

gcc aaa ctt aag aga aat cta gta Ala Lys Leu Lys Arg Asn Leu Val 525 530	a gga gta gct gcg ggc ctc ggc gtg 163 l Gly Val Ala Ala Gly Leu Gly Val 535	6								
	a gaa tgc ctt aga ttg cct agc act 168 l Glu Cys Leu Arg Leu Pro Ser Thr 550 555	14								
	c tgg atc gtc aac gac ctt agt cac 173 r Trp Ile Val Asn Asp Leu Ser His 565 570	12								
	a caa tgg ctt aag gag aaa tct tgt 178 u Gln Trp Leu Lys Glu Lys Ser Cys 580 585	10								
	g tca tca gtg.gag gat aca aac tca 182 y Ser Ser Val Glu Asp Thr Asn Ser 5 600	8 :								
	t gac aag gaa gaa tct gaa atc acc 187 p Asp Lys Glu Glu Ser Glu Ile Thr 615	16								
	a gac ctc aaa gag cta gtg aga tca 192 o Asp Leu Lys Glu Leu Val Arg Ser 630 635	:4								
	g aac aac aac atc act ttc tac tca 197 u Asn Asn Asn Ile Thr Phe Tyr Ser 645 650	'2								
	c gac ttt agg aat gca gtt gta caa 202 p Asp Phe Arg Asn Ala Val Val Gln 660 665	:0								
	a gat gtc gaa cta gag gag gag agt 206 e Asp Val Glu Leu Glu Glu Glu Ser 5 680	8								
ttt act tgg taagagctca agctt Phe Thr Trp 685										
<210> 2 <211> 686 <212> PRT <213> Artificial Sequence										
<220> <223> Description of Artificial Sequence: Synthetic saccharomyces cerevisiae										
<400> 2 Met Val Arg Thr Arg Val Leu Phe 1 5	e Cys Leu Phe Ile Ser Phe Phe Ala 10 15									

Thr Val Gln Ser Ser Ala Thr Leu Ile Ser Thr Ser Cys Ile Ser Gln 25 Ala Ala Leu Tyr Gln Phe Gly Cys Ser Ser Lys Ser Lys Ser Cys Tyr 40 Cys Lys Asn Ile Asn Trp Leu Gly Ser Val Thr Ala Cys Ala Tyr Glu Asn Ser Lys Ser Asn Lys Thr Leu Asp Ser Ala Leu Met Lys Leu Ala . 70 Ser Gln Cys Ser Ser Ile Lys Val Tyr Thr Leu Glu Asp Met Lys Asn 90 Ile Tyr Leu Asn Ala Ser Asn Tyr Leu Arg Ala Pro Glu Lys Ser Asp 100 Lys Lys Thr Val Val Ser Gln Pro Leu Met Ala Asn Glu Thr Ala Tyr 120 His Tyr Tyr Glu Glu Asn Tyr Gly Ile His Leu Asn Leu Met Arg Ser Gln Trp Cys Ala Trp Gly Leu Val Phe Phe Trp Val Ala Val Leu 150 155 Thr Ala Ala Thr Ile Leu Asn Ile Leu Lys Arg Val Phe Gly Lys Asn Ile Met Ala Asn Ser Val Lys Lys Ser Leu Ile Tyr Pro Ser Val Tyr 185 Lys Asp Tyr Asn Glu Arg Thr Phe Tyr Leu Trp Lys Arg Leu Pro Phe Asn Phe Thr Thr Arg Gly Lys Gly Leu Val Val Leu Ile Phe Val Ile 215 220 Leu Thr Ile Leu Ser Leu Ser Phe Gly His Asn Ile Lys Leu Pro His 230

Pro Tyr Asp Arg Pro Arg Trp Arg Arg Ser Met Ala Phe Val Ser Arg

Arg Ala Asp Leu Met Ala Ile Ala Leu Phe Pro Val Val Tyr Leu Phe

Gly Ile Arg Asn Asn Pro Phe Ile Pro Ile Thr Gly Leu Ser Phe Ser 275 280 285

Thr Phe Asn Phe Tyr His Lys Trp Ser Ala Tyr Val Cys Phe Met Leu 290 295 300

Ala Val Val His Ser Ile Val Met Thr Ala Ser Gly Val Lys Arg Gly 305 310 315 320

Val Phe Gln Ser Leu Val Arg Lys Phe Tyr Phe Arg Trp Gly Ile Val Ala Thr Ile Leu Met Ser Ile Ile Ile Phe Gln Ser Glu Lys Val Phe 345 Arg Asn Arg Gly Tyr Glu Ile Phe Leu Leu Ile His Lys Ala Met Asn 360 Ile Met Phe Ile Ile Ala Met Tyr Tyr His Cys His Thr Leu Gly Trp 375 Met Gly Trp Ile Trp Ser Met Ala Gly Ile Leu Cys Phe Asp Arg Phe 390 395 Cys Arg Ile Val Arg Ile Ile Met Asn Gly Gly Leu Lys Thr Ala Thr 405 410 Leu Ser Thr Thr Asp Asp Ser Asn Val Ile Lys Ile Ser Val Lys Lys 425 Pro Lys Phe Phe Lys Tyr Gln Val Gly Ala Phe Ala Tyr Met Tyr Phe 440 Leu Ser Pro Lys Ser Ala Trp Phe Tyr Ser Phe Gln Ser His Pro Phe 455 Thr Val Leu Ser Glu Arg His Arg Asp Pro Asn Asn Pro Asp Gln Leu Thr Met Tyr Val Lys Ala Asn Lys Gly Ile Thr Arg Val Leu Leu Ser 490 Lys Val Leu Ser Ala Pro Asn His Thr Val Asp Cys Lys Ile Phe Leu Glu Gly Pro Tyr Gly Val Thr Val Pro His Ile Ala Lys Leu Lys Arg 520 Asn Leu Val Gly Val Ala Ala Gly Leu Gly Val Ala Ala Ile Tyr Pro 530 His Phe Val Glu Cys Leu Arg Leu Pro Ser Thr Asp Gln Leu Gln His 550 555 Lys Phe Tyr Trp Ile Val Asn Asp Leu Ser His Leu Lys Trp Phe Glu 570 Asn Glu Leu Gln Trp Leu Lys Glu Lys Ser Cys Glu Val Ser Val Ile 585 Tyr Thr Gly Ser Ser Val Glu Asp Thr Asn Ser Asp Glu Ser Thr Lys 595 600

Gly Phe Asp Asp Lys Glu Glu Ser Glu Ile Thr Val Glu Cys Leu Asn

615

```
Lys Arg Pro Asp Leu Lys Glu Leu Val Arg Ser Glu Ile Lys Leu Ser
                    630
                                         635
Glu Leu Glu Asn Asn Ile Thr Phe Tyr Ser Cys Gly Pro Ala Thr
                645
                                     650
Phe Asn Asp Asp Phe Arg Asn Ala Val Val Gln Gly Ile Asp Ser Ser
            660
                                 665
Leu Lys Ile Asp Val Glu Leu Glu Glu Glu Ser Phe Thr Trp
                            680
<210> 3
<211> 17
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 3
                                                                   17
gactcgagtc gacatcg
<210> 4
<211> 24
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 4
acacttatta gcacttcatg tatt
                                                                   24
<210> 5
<211> 83
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 5
gaatteteta gaeteeacea tggttagaac cagagteett ttetgeetet teatetettt 60
cttcgctaca gtccaatcga gcg
<210> 6
<211> 83
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
```

```
<400> 6
gtccaatcga gcgctacact catctccact tcatgcattt ctcaggctgc actgtaccag 60
ttcggatgct caagcaagtc aaa
<210> 7
<211> 83
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 7
caagcaagtc aaagtcttgc tactgcaaga acatcaattg gctcggaagc gtcactgcat 60
gcgcttatga gaactccaaa tct
<210> 8
<211> 83
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 8
tccagtgtgt aaaccttgat acttgagcat tggctggcaa gtttcatcaa agcggagtcc 60
agagtcttgt tagatttgga gtt
                                                                    83
<210> 9
<211> 83
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 9
tgtcttctta tcggatttct caggagcgcg aaggtagtta cttgcattaa ggtagatgtt 60
cttcatgtcc tccagtgtgt aaa
<210> 10
<211> 83
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 10
ggatcccata gttttcctca tagtagtagt gataggccgt ctcatttgcc atcaacggtt 60
gtgaaacaac tgtcttctta tcg
```

<210> 11

```
<211> 80
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 11
ggatccactt gaatttgatg cgatctcaat ggtgcgcatg gggcctcgtc ttcttctggg 60
tcgcagtcct taccgccgca
<210> 12
<211> 80
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 12
cettacegee geaactatet tgaacattet caaacgegta tteggeaaga acattatgge 60
aaattctgtt aagaagtctc
<210> 13
<211> 80
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 13
gttaagaagt ctcttatcta cccaagcgtt tacaaagact acaacgagag aactttctat 60
ctttggaaac gtttgccatt
<210> 14
<211> 80
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 14
agagtgagag aatagtcaga atgacaaaga taagaactac gagtcctttg cctcgagttg 60
taaagttgaa tggcaaacgt
<210> 15
<211> 80
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
```

```
<400> 15
aatgccattg atcttctcca tctaggtcta tcgtaaggat gtggcaactt gatgttatgt 60
ccgaaagaga gtgagagaat
<210> 16
<211> 80
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 16
tccggatacc gaaaaggtac accacgggga aaagagcgat tgccatcaag tcagcacggc 60
gtgagacgaa tgccattgat
<210> 17
<211> 83
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 17
teeggaacaa eccetteate ecaateaceg gattgagett tagtaettte aacttttace 60
acaaatggtc agcatacgtc tgc
<210> 18
<211> 83
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 18
gcatacgtct gcttcatgtt agccgtcgtc cattcaatcg ttatgaccgc ttcaggagtt 60
                                                                   83
aaacgaggag tattccagtc tct
<210> 19
<211> 83
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
tattccagtc tcttgtaagg aaattctact tcagatgggg aatagtagcc acaattctta 60
tgtccatcat cattttccag tcc
```

```
<210> 20
 <211> 83
 <212> DNA
 <213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
ataaacatga tgttcatggc tttgtgaata agtaagaaga tttcataacc tcggttcctg 60
aagaccttct cggactggaa aat
<210> 21
 <211> 83
 <212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 21
gaggatgeca gecatggace agatecagee catecateet agtgtgtgge aatggtaata 60
catagctatg ataaacatga tgt
<210> 22
 <211> 83
 <212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 22
gtcgacaaag tggcggtctt aagacctccg ttcatgatga tacgtacaat tcggcagaac 60
ctgtcgaagc agaggatgcc agc
<210> 23
<211> 82
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 23
gtcgaccaca gatgattcta acgttatcaa gatctctgtc aagaagccta agttcttcaa 60
gtatcaagtg ggagcatttg cc
                                                                    82
<210> 24
<211> 82
<212> DNA
<213> Artificial Sequence
<220>
```

```
<223> Description of Artificial Sequence: Primer
ggagcatttg cctatatgta ctttctttca ccaaaatcag cctggttcta cagttttcaa 60
tctcatccct tcacagtcct at
<210> 25
<211> 82
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 25
ttcacagtcc tatcagaaag gcacagagat cctaacaacc cagatcaact aactatgtac 60
gtcaaagcta acaagggcat ta
<210> 26
<211> 82
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 26
cctctaagaa aatcttgcaa tcaacggtat ggtttggagc gcttagaact ttgctaagaa 60
                                                                   82
gtactctcgt aatgcccttg tt
<210> 27
<211> 82
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
qqcccqcaqc tactcctact agatttctct taagtttggc aatgtgaggg acagttacgc 60
catatggtcc ctctaagaaa at
<210> 28
<211> 82
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 28
ctgcagttga tcagtgctag gcaatctaag gcattctacg aaatgggggt agatggctgc 60
cacgccgagg cccgcagcta ct
```

```
<210> 29
<211> 77
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 29
ctgcagcaca agttctactg gatcgtcaac gaccttagtc accttaagtg gttcgaaaac 60
gagctacaat ggcttaa
<210> 30
<211> 77
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 30
acaatggctt aaggagaaat cttgtgaagt ctctgtcatc tacactgggt catcagtgga 60
ggatacaaac tcagatg
<210> 31
<211> 77
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 31
caaactcaga tgagtccact aagggtttcg atgacaagga agaatctgaa atcaccgtag 60
aatgccttaa caagagg
<210> 32
<211> 77
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 32
gtgatgttgt tgttctcgag ttctgacaat ttgatctctg atctcactag ctctttgagg 60
tctggcctct tgttaag
<210> 33
<211> 77
<212> DNA
<213> Artificial Sequence
```

```
<220>
<223> Description of Artificial Sequence: Primer
<400> 33
cqataccttq tacaactqca ttcctaaagt cgtcattgaa agtcgctggt ccgcatgagt 60
agaaagtgat gttgttg
<210> 34
<211> 77
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Primer
<400> 34
aagettgage tettaceaag taaaactete eteetetagt tegacateta tetteagaet 60
agaatcgata ccttgta
<210> 35
<211> 35
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Primer
<400> 35
                                                                   35
gactcgagtc gacatcgatt ttttttttt tttt
<210> 36
<211> 2059
<212> DNA
<213> Saccharomyces cerevisiae
<400> 36
atggttagaa cccgtgtatt attctgctta tttatatctt tttttgctac ggttcaatcg 60
aqtqctacac ttattaqcac ttcatqtatt tcccaaqctg cgctatacca atttggatgt 120
tctaqtaaat ctaaaaqttq ctactqtaaa aacatcaatt qqctqqqttc agtgacagca 180
tqtqcctatq aqaattccaa atctaacaaa acactagaca gcgccttaat gaagttagca 240
tcccaatgtt caagcatcaa agtttatact ttagaggaca tgaagaatat ttatttaaat 300
qcqtcaaatt atttqaqaqc acctqaqaaa agtgataaaa aaaccgtggt tagtcaaccg 360
ctcatqqcqa acqaqacaqc qtatcattat tattatqaqq aaaattatqq tatccatctt 420
aacctaatgc gctctcaatg gtgcgcttgg ggtctcgtct tcttctgggt gggtgtgctt 480
actqcaqcca ctatcttgaa cattctgaaa agggtgtttg gtaagaacat catggcaaac 540
tccgtcaaaa aatcacttat ttatccttct gtttacaaag attataatga acgaactttt 600
tatttatgga agegtetace atttaatttt acaactegag geaagggtet egtegtatta 660
atttttgtta ttttgactat attatctctc agttttggtc ataatattaa acttccacac 720
ccatatgata ggcccagatg gagaagaagt atggcctttg tgagtcgtag agcagacttg 780
atggccattg cacttttccc agtagtctat ctattcggaa taagaaataa tcccttcatc 840
cctataacag ggctttcctt ttctacattt aatttctatc ataaatggtc tgcctacgtt 900
tgtttcatgt tggccgttgt acactcaatt gtcatgaccg cctcgggagt gaaaagaggt 960
gtgtttcaaa gtctggttag gaaattttac tttaggtggg gtatagtggc aacgatatta 1020
atqtctatta ttattttcca aagtgaaaaa gtatttagaa atagagggta tgagatattc 1080
cttcttattc ataaagcgat gaatattatg ttcattattg ccatgtacta ccattgtcac 1140
```

```
accetggget ggatgggttg gatttggtca atggetggta ttttatgett tgatagatte 1200
tgcaggattg ttagaataat catgaatggt ggcttgaaaa ctgctacttt gagtaccact 1260
gatgattcta atgttattaa aatttcagta aaaaaaccaa agtttttcaa gtaccaagta 1320
ggagettteg catacatgta tttettatea ecaaaaagtg catggtteta tagttteeaa 1380
tcacatccat ttacagtatt atcggaacga caccgtgatc caaacaatcc agatcaattg 1440
acgatgtacg taaaggcaaa taaaggtatc actcgagttt tgttatcgaa agttctaagt 1500
gctccaaatc atactgttga ttgtaaaata ttccttgaag gcccatatgg tgtaacggtt 1560
ccacatatcg ctaagctaaa aagaaatctg gtaggtgtag ccgctggttt gggtgttgcg 1620
gctatttatc cgcactttgt cgaatgttta cggttaccat ctactgatca acttcagcat 1680
aaattttact ggattgttaa tgacctatcc catttgaaat ggtttgaaaa tgaattgcaa 1740
tqqttaaaqq agaaaaqttg tgaagtctca gtcatatata ctggttccag tgttgaggac 1800
acaaattcaq atqaqaqtac aaaaqqtttt qatqataaag aagaaagcga aatcactgtt 1860
gaatgtctca ataaaagacc tgatttgaaa gaactagtgc gctcggaaat aaaactctca 1920
gaactagaga ataataatat taccttttat tcctgcgggc cagcaacgtt taacgacgat 1980
tttaqaaatq caqtqqtcca aqgtatagac tcttccttga agattgacgt tgaactagaa 2040
gaagaaagtt ttacatggt
<210> 37
<211> 180
<212> DNA
<213> Saccharomyces cerevisiae
<220>
<221> CDS
<222> (1)..(180)
<400> 37
tcc gtc aaa aaa tca ctt att tat cct tct gtt tac aaa gat tat aat
                                                                   48
Ser Val Lys Lys Ser Leu Ile Tyr Pro Ser Val Tyr Lys Asp Tyr Asn
gaa cga act ttt tat tta tgg aag cgt cta cca ttt aat ttt aca act
                                                                   96
Glu Arg Thr Phe Tyr Leu Trp Lys Arg Leu Pro Phe Asn Phe Thr Thr
             20
                                 25
cga ggc aag ggt ctc gtc gta tta att ttt gtt att ttg act ata tta
                                                                   144
Arg Gly Lys Gly Leu Val Val Leu Ile Phe Val Ile Leu Thr Ile Leu
         35
tct ctc agt ttt ggt cat aat att aaa ctt cca cac
                                                                   180
Ser Leu Ser Phe Gly His Asn Ile Lys Leu Pro His
     50
<210> 38
<211> 60
<212> PRT
<213> Saccharomyces cerevisiae
<400> 38
Ser Val Lys Lys Ser Leu Ile Tyr Pro Ser Val Tyr Lys Asp Tyr Asn
                                                          15
Glu Arg Thr Phe Tyr Leu Trp Lys Arg Leu Pro Phe Asn Phe Thr Thr
             20
                                 25
```

Az

Arg Gly Lys Gly Leu Val Val Leu Ile Phe Val Ile Leu Thr Ile Leu 35 40 45

Ser Leu Ser Phe Gly His Asn Ile Lys Leu Pro His 50 55 60